

CHEMOSENSORY GENE FAMILY ENCODING GUSTATORY AND OLFACTORY
RECEPTORS AND USES THEREOF

Abstract of the Disclosure

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This invention provides an isolated nucleic acid encoding an insect gustatory or odorant receptor. This invention provides a nucleic acid of at least 12 nucleotides capable of specifically hybridizing with a nucleic acid encoding an insect gustatory or odorant receptor. This invention

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also provides a purified, insect gustatory or odorant receptor. This invention provides an antibody capable of specifically binding to an insect gustatory or odorant receptor. This invention provides a method of identifying

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a compound capable of specifically binding to, activating, or inhibiting the activity of an insect gustatory or odorant receptor. This invention also provides methods of controlling insect populations.

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